	DRAFFApproved For Release 20 NSC BRISFING		se 2002/000 SA-R	02/000 15 A-ROPTORO0890A000B000000 1954 (NOT USED)			
25X1X7	PERFORMANCE ESTIMATE FOR SOVIET JET HEAVY BOMBER						
	1.		estimates of p	erformance as of 1957 for the 25X1X7			
25X1X7	So	viet Type 37	Beavy Jet Sombe	r have been finalized.			
25X1X7							
<i>e</i>				Optimum Radius/Range Eission			
25X1X7		ke off weight (pounds) mb load	*	345,000			
		(pounds)* mbat radius		10,000			
		(N miles)		2,600			
		(N miles)	_ \	5,100			
		(feet) winum targets		43,790			
	35. 4	speed (knots		487			

bomb loads (multi-megaton weapons) are such that without utilizing forward staging bases (Chukotski) and range extension techniques e.g. in-flight refueling or one-way missions, the Type 37 represents a striking power still generally oriented toward Europe, Asia, and peripheral

Estimated optimus mission performances with 10,000 lb.

II.

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Type 37 depends upon

- a. an as yet undemonstrated in-flight refueling capability requiring 18 months to 2 years to develop and
- b. a Soviet decision to expend in 1957 all 50 estimated operational Type 37 aircraft on missions with the expectation that only half might reach assigned targets.
- one in which the TU-4 would still figure prominently,
 with the Type 39 a strong element of strength against
 Eurasian and peripheral targets, and the Type 37 just
 coming into significant quantity. Given Soviet nuclear
 capabilities, this is a serious and formidable picture,
 but it is not particularly alarming with respect to the
 continental US. However, with series Type 37 production,
 operational staging bases, and an effective in-flight
 refueling system, the threat increases sharply becoming
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Background

BOMB LOAD VARIATIONS

thousand pounds and increasing the fuel load accordingly, the combat radius/range of the Type 37 may be extended slightly. However, nuclear ordnance weighing 3,000 lb. would be a marginally acceptable strategic weapon. If effectively constructed, a 3,000 lb. weapon could yield an energy equivalent of approximately 20ET—the yield of the Nagasaki bomb. By extravagant, inefficient use of nuclear material this yield could be boosted. Such uneconomical use of nuclear material appears unlikely as the Soviet stockpile of nuclear material in 1957 will still be relatively modest.

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Background

	Comparison of the	Basic Missions	of the Type 39 a	ad US B-52	
				US B-52	25X1X7
25X1X7	Take off weight (pounds)		345,000	390,000	·
	Bomb load (pounds)		10,000	10,000	
	Combat radius		2,350	3,160	
	Combat range (HM)		4,360	6,560	
	Target altitude (feet)		41,200	46,700	
	Maximum Target speed (knots)		492	480	Taranga da ka

